

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of producing a photocatalyst having comprising a carrier carrying titania and metal with having a property of exhibiting thermal catalytic activity, said method comprising:

preparing a metal carrying step of causing said carrier carrying the titania to carry a compound of said metal;

a reduction step of hydrogen reducing the metal carried on titania by hydrogen, in a heating atmosphere at a first treatment temperature, said compound of the metal carried by said carrier in said metal carrying step; and

an oxidation step of oxidizing, in a heating atmosphere at a second treatment temperature, said metal obtained by hydrogen reduction in said reduction step to thereby enhance activity of said metal.

2. (Original) The method according to claim 1, wherein said second treatment temperature is equal to or less than said first treatment temperature.

3. (Original) The method according to claim 1, wherein said second treatment temperature falls within a range of 300°C to 600°C.

4. (Original) The method according to claim 1, wherein said second treatment temperature falls within a range of 500°C to 600°C.

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12. (Cancelled)

13. (Cancelled)

14. (New) The method according to claim 1, wherein said oxidation step is carried out to obtain fine crystal particles of the metal by cutting bonds in a raft-shaped crystal structure of the metal formed in said reduction step.

15. (New) The method according to claim 1, wherein said oxidation step is carried out in the heating atmosphere containing oxygen.